

## Document Log Item

Addressing	
<b>From</b>	<b>To</b>
Adam Freedman/R9/USEPA/US	<Damonica.Pierson@Shell.com> <Damonica.Pierson@Shell.com>
<b>CC</b>	<b>BCC</b>
<b>Description</b> <span>Form Used: Reply</span>	
<b>Subject</b>	<b>Date/Time</b>
Re: Rhodamine Dye	03/25/2010 04:54 PM
<b># of Attachments</b>	<b>Total Bytes</b>
0	10,289
<b>NPM</b>	<b>Contributor</b>
<b>Processing</b>	
<b>Comments</b>	

Body

### Document Body

Damonica,  
Yes, when we are ready to send you the draft permit for your comments, that would be a good time for you to insert an updated timeline. Thank you very much.

Adam Freedman  
Environmental Scientist, Underground Injection Control  
U.S. Environmental Protection Agency, Region 9  
75 Hawthorne Street (WTR-9)  
San Francisco, CA 94105-3901  
415.972.3845  
freedman.adam@epa.gov

---03/25/2010 04:41:36 PM---We do have several timelines, however, none of them have been updated since we've been working on ou

From: <Damonica.Pierson@Shell.com>  
To: Adam Freedman/R9/USEPA/US@EPA  
Date: 03/25/2010 04:41 PM  
Subject: Re: Rhodamine Dye

---

We do have several timelines, however, none of them have been updated since we've been working on our DOE grant application. Can we add this to the Draft Permit during the comment period(s)?

-----  
Sent using BlackBerry

**From:** Freedman.Adam@epamail.epa.gov <Freedman.Adam@epamail.epa.gov>

**To:** Pierson, Damonica M SEPCO-UAS-E

**Sent:** Thu Mar 25 15:55:48 2010

**Subject:** RE: Rhodamine Dye

Damonica,

Thank you very much for your clarification. I appreciate that you looked into it for me. I did have another question (they keep on coming). Do you have an operations timeline, that is, a graphic or spreadsheet that lays out the anticipated time frame for drilling, logging, coring/samples retrieval, casing, injection, etc.? I would like to include such a timeline as an appendix to the permit so if this is possible I would appreciate your sending it to me. Thank you very much.

Adam Freedman  
Environmental Scientist, Underground Injection Control

U.S. Environmental Protection Agency, Region 9  
75 Hawthorne Street (WTR-9)  
San Francisco, CA 94105-3901  
415.972.3845  
freedman.adam@epa.gov

From: <Damonica.Pierson@Shell.com>  
To: Adam Freedman/R9/USEPA/US@EPA  
Date: 03/25/2010 01:51 PM  
Subject: RE: Rhodamine Dye

Hi Adam. I checked with the subsurface engineers about the rhodamine dye and they confirmed that it is one of several different tracers that we have the option of using during injection. The intent behind including its MSDS sheet in the UIC permit application was only to make EPA aware of the tracers that we are considering. Therefore, a specific permit condition that references rhodamine use is not needed because we have not decided to use it.

-----Original Message-----

**From:** Freedman.Adam@epamail.epa.gov [<mailto:Freedman.Adam@epamail.epa.gov>]

**Sent:** Wednesday, March 24, 2010 12:35 PM

**To:** Pierson, Damonica M SEPCO-UAS-E

**Subject:** RE: Rhodamine Dye

Damonica,  
Rhodamine is listed in Appendix P-1. I am having difficulty finding it in the text of the application at the moment -- but I had included the use of rhodamine dye during the step-rate testing, per

the applicant's request. This may be my mistake, but it's listing in Appendix P-1 leads me to believe that it is listed in the application. I'm sorry that I am having trouble locating the reference right now -- perhaps your operations engineers who designed the processes, specifically for the step-rate test, would have a sense of whether or not a specific condition needs to be inserted into the permit with regard to rhodamine use during the test. Thank you for following up on this.

Adam Freedman  
Environmental Scientist, Underground Injection Control  
U.S. Environmental Protection Agency, Region 9  
75 Hawthorne Street (WTR-9)  
San Francisco, CA 94105-3901  
415.972.3845  
freedman.adam@epa.gov

From: <Damonica.Pierson@Shell.com>  
To: Adam Freedman/R9/USEPA/US@EPA  
Date: 03/24/2010 09:26 AM  
Subject: RE: Rhodamine Dye

Adam, I am having trouble finding a reference to rhodamine dye in the permit app. On what section/page did you find it?

-----Original Message-----

**From:** Freedman.Adam@epamail.epa.gov [<mailto:Freedman.Adam@epamail.epa.gov>]

**Sent:** Tuesday, March 23, 2010 6:42 PM

**To:** Pierson, Damonica M SEPCO-SWE

**Subject:** Rhodamine Dye

Damonica,

C6 has proposed using Rhodamine Dye in its fluids during Step-Rate Testing. If you could provide a brief explanation for the use of the dye in that setting that would be quite helpful. Thank you very much.

Adam Freedman  
Environmental Scientist, Underground Injection Control  
U.S. Environmental Protection Agency, Region 9  
75 Hawthorne Street (WTR-9)  
San Francisco, CA 94105-3901  
415.972.3845  
freedman.adam@epa.gov